

Notice of Allowability

Application No.

10/025,461

Examiner

William C. Choi

Applicant(s)

KASCHKE ET AL.

Art Unit

2873

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to after final amendment filed 2/2205.
2. ☒ The allowed claim(s) is/are 2,4,11-14,16,18,22-25,29,35,37 and 38.
3. ☒ The drawings filed on 29 January 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

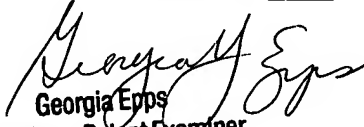
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 0105
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


Georgia Epps
Supervisory Patent Examiner
Technology Center 2800
Notice of Allowability

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Allowed Claims: 2, 4, 11-14, 16, 18, 22-25, 29, 35, 37 and 38.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: none of the prior art either alone or in combination disclose or teach of the claimed combination of limitations to warrant a rejection under 35 USC 102 or 103.

Specifically, with respect to independent claim 2, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display and first and second optical arrangements as claimed, specifically further comprising a mirror switchable into and out of a beam path, for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of the left and right partial images on the display.

Specifically, with respect to independent claim 4, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display, first and second optical arrangements and a switchover device for alternately coupling information shown on said display as claimed, specifically further wherein said switchover device includes a partially transmitting mirror; polarization filters mounted in corresponding ones of said first and second component beam paths; and said polarization filters having respective pass-through directions crossed with respect to each other.

Specifically, with respect to independent claim 11, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display for sequentially displaying right and left partial images and an optical arrangement for illuminating said display sequentially and including a polarization beam splitter as claimed, specifically further wherein the optical arrangement illuminates said display sequentially in time with light having first and second directions of polarization different from each other.

Specifically, with respect to independent claim 12, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display for sequentially displaying right and left partial images and an optical arrangement for illuminating said display sequentially and including a polarization beam splitter as claimed, specifically wherein the optical arrangement further includes two light sources for emitting respective beams of light and said polarization beam splitter being mounted to receive said beams of light and to coaxially superpose said beams of light one upon the other.

Specifically, with respect to independent claim 13, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display and an optical arrangement including two light sources for emitting respective beams of light and a polarization beam splitter being mounted to receive said beams of light as claimed, specifically further comprising a color filter wheel common to both of said light sources and mounted downstream thereof.

Specifically, with respect to independent claim 16, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display and first and second optical arrangements as claimed, specifically further comprising a mirror switchable into and out of a beam path, for alternately coupling information shown on said display from said common viewing beam path separately into said first and second component beam paths in synchronism with the presentation of the left and right partial images on the display.

Specifically, with respect to independent claim 18, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display, first and second optical arrangements and a switchover device for alternately coupling information shown on said display as claimed, specifically further wherein said switchover device includes a partially transmitting mirror; polarization filters mounted in corresponding ones of said first and second component beam paths; and said polarization filters having respective pass-through directions crossed with respect to each other.

Specifically, with respect to independent claim 22, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display and first and second optical arrangements as claimed, specifically further comprising a mirror switchable into and out of a beam path so as to permit information into a first and second component beam path in synchronism with the presentation of the left and right partial images on said display.

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Specifically, with respect to independent claim 29, none of the prior art alone or in combination disclose or teach of a stereoscopic display system comprising a single display, first and second optical arrangements and a switchover device comprising a polarization switch and beam splitter as claimed, specifically further wherein said switchover device includes a partially transmitting mirror; polarization filters mounted in corresponding ones of said first and second component beam paths; and said polarization filters having respective pass-through directions crossed with respect to each other.

Specifically, with respect to independent claim 35, none of the prior art alone or in combination disclose or teach of a viewing system worn by a person on the head comprising a stereoscopic display system comprising a single display, first and second optical arrangements and a switchover device comprising a polarization switch and beam splitter as claimed, specifically further wherein said switchover device includes a partially transmitting mirror; polarization filters mounted in corresponding ones of said first and second component beam paths; and said polarization filters having respective pass-through directions crossed with respect to each other.

CONCLUSION


Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Choi whose telephone number is (571) 272-2324. The examiner can normally be reached on Monday-Friday from about 9:00 am to 6 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

W.C.
William Choi
Patent Examiner
Art Unit 2873
March 1, 2005


Georgia Epps
Supervisory Patent Examiner
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